WHAT IS CLAIMED IS:

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        1.   A WDM (Wavelength Division Multiplex) terminal device located in a WDM network, through which a plurality of client signals are transmitted with their wavelengths being multiplexed, said WDM

10 terminal device comprising:

        a first compensator that collectively compensates dispersion of each wavelength of a first plurality of client signals received through the WDM network with their wavelengths being multiplexed;

15   a transmission amplifier that collectively adjusts levels of said first plurality of client signals; and

        a multiplexing unit that multiplexes a wavelength of a client signal having a single

20 wavelength or a wavelength of at least one of a second plurality of client signals whose wavelengths are multiplexed, to wavelengths of said first plurality of client signals, and transmits said first plurality of client signals.

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        2.   The WDM terminal device as claimed in

30 claim 1, further comprising:

        a separating unit that separates a third plurality of client signals to be transmitted to one place, from a fourth plurality of client signals received with their wavelengths being multiplexed,

35 keeping wavelengths of said third plurality of client signals multiplexed;

        a second compensator that collectively

compensates dispersion of each wavelength of said
third plurality of client signals; and

     a reception amplifier that collectively
adjusts levels of said third plurality of client
5 signals,

     wherein said separating unit transmits
said third plurality of client signals to said one
place, keeping the wavelengths of said third
plurality of client signals multiplexed.
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     3.   A WDM network, through which a
15 plurality of client signals are transmitted with
their wavelengths being multiplexed, said WDM
network comprising a provisioning unit that is
connected to a WDM terminal device, and carries out
provisioning to all WDM terminal devices, WDM-ADM
20 (Add-Drop Multiplexer) devices, and SONET
(Synchronous Optical Network) devices connected to
the WDM devices, in said WDM network.

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     4.   The WDM network as claimed in claim 3,
further comprising an alarm monitoring unit that is
connected to the WDM terminal device, and monitors
30 all the WDM terminal devices, the WDM-ADM devices,
and the SONET devices for an alarming condition.

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     5.   The WDM network as claimed in claim 3,
further comprising an output-level adjusting unit

that is connected to the WDM terminal device, and
adjusts an output level of a signal from each WDM
terminal device and each WDM-ADM device, based on
signal reception levels detected at all the WDM
5   terminal devices and the WDM-ADM devices.

10   6.   A WDM-ADM device located in a WDM
network, through which a plurality of client signals
are transmitted with their wavelengths being
multiplexed, said WDM-ADM device comprising:
            a first compensator that collectively
15 compensates dispersion of each wavelength of a first
plurality of client signals received through the WDM
network with their wavelengths being multiplexed;
            a transmission amplifier that collectively
adjusts levels of said first plurality of client
20 signals; and
            an adding unit that adds said first
plurality of client signals to a second plurality of
client signals whose wavelengths are multiplexed,
keeping the wavelengths of said first plurality of
25 client signals multiplexed, and transmits said
second plurality of client signals.

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            7.   The WDM-ADM device as claimed in
claim 6, further comprising:
            a dropping unit that drops a third
plurality of client signals to be transmitted to one
35 place, from a fourth plurality of client signals
received with their wavelengths being multiplexed,
keeping wavelengths of said third plurality of

client signals multiplexed;

     a second compensator that collectively compensates dispersion of each wavelength of said third plurality of client signals; and

5   a reception amplifier that collectively adjusts levels of said third plurality of client signals,

     wherein said dropping unit transmits said third plurality of client signals to said one place

10 with the wavelengths of said third plurality of client signals being multiplexed.